CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory
An ISO 9001:2008 Certified Company
NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/PV/W.No.10/CSR-03/899g/CEMENT/2018-19 Date: 05.03.2019

TEST REPORT ON CEMENT

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. P. Vishwanath,** No.28, 2nd Cross, Giddappa Block, Ganganagara, Bangalore - 5600 32.
* Name of Work	:	Providing and fixing missing covering slab at Nanjappa Layout, R.R. School, Muneshwara Layout, Ramanna Garden, Venugopalaswamy temple and surrounding areas in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	Cement
Sample Received on	:	04.03.2019
Period of Testing	:	04.03.2019 to 05.03.2019

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	28.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	165 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	385 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

AEE (WRP) SD

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Pooja K.L.

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Job No.: CTCE/BBMP/PV/W.No.10/CSR-03/899g/SAND-Gradation/2018-19 05.03.2019

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. P. Vishwanath,** No.28, 2nd Cross, Giddappa Block, Ganganagara, Bangalore - 5600 32.
* Name of Work	:	Providing and fixing missing covering slab at Nanjappa Layout, R.R. School, Muneshwara Layout, Ramanna Garden, Venugopalaswamy temple and surrounding areas in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	Fine Aggregates (M - Sand)
Technical Reference	:	IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	:	04.03.2019
Date of Testing	:	05.03.2019

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	96.10	90-100	90-100	90-100	95-100
2.36	77.10	60-95	75-100	85-100	95-100
1.18	62.10	30-70	55-90	75-100	90-100
600 Micron	41.10	15-34	35-59	60-79	80-100
300 Micron	23.10	5-20	8-30	12-40	15-50
150 Micron	8.10	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

Note 1 :
For crushed stone sands, the permissible limit on 150-micron IS Sieve is increased to 20 percent. This does not affect the 5 percent allowance permitted in 4.3 of IS 383 applying to other sieve sizes.

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Pooja K.L.

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e-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Job No.: CTCE/BBMP/PV/W.No.10/CSR-03/899g/AGG/GR/2018-19 05.03.2019

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. P. Vishwanath,** No.28, 2nd Cross, Giddappa Block, Ganganagara, Bangalore - 5600 32.
* Name of Work	:	Providing and fixing missing covering slab at Nanjappa Layout, R.R. School, Muneshwara Layout, Ramanna Garden, Venugopalaswamy temple and surrounding areas in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	Coarse Aggregates (20mm)
Technical Reference	:	IS : 2386 (Part 1) -1963(RA-2011)
Sample Received on	:	04.03.2019
Date of Testing	:	05.03.2019

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS :383-1970 (RA- 2011)	
		Graded	Single Sized
40	100	100	100
20	96.96	95-100	85-100
10	38.72	25-55	0-20
4.75	5.02	0-10	0-5

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

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Job No.: CTCE/BBMP/PV/W.No.10/CSR-03/899g/Cube/2019-20 11.04.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. P. Vishwanath,** No.28, 2nd Cross, Giddappa Block, Ganganagara, Bangalore - 5600 32.
* Name of the work	:	Providing and fixing missing covering slab at Nanjappa Layout, R.R. School, Muneshwara Layout, Ramanna Garden, Venugopalaswamy temple and surrounding areas in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	Cement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{15}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	11.04.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.03.2019	11.04.2019	8.119	375.4	16.68
2	14.03.2019	11.04.2019	8.245	384.6	17.09
3	14.03.2019	11.04.2019	8.302	392.6	17.45

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11.04.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	Cement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{15}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	11.04.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.03.2019	11.04.2019	8.278	370.8	16.48
2	14.03.2019	11.04.2019	8.395	381.4	16.95
3	14.03.2019	11.04.2019	8.456	392.8	17.46

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* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	Cement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{15}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	11.04.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.03.2019	11.04.2019	8.356	366.4	16.28
2	14.03.2019	11.04.2019	8.458	376.4	16.73
3	14.03.2019	11.04.2019	8.295	384.5	17.09

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* Sample ID	:	Cement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{15}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	11.04.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.03.2019	11.04.2019	8.112	364.5	16.20
2	14.03.2019	11.04.2019	8.287	374.6	16.65
3	14.03.2019	11.04.2019	8.392	384.5	17.09

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Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{15}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	11.04.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.03.2019	11.04.2019	8.278	372.3	16.55
2	14.03.2019	11.04.2019	8.368	382.4	17.00
3	14.03.2019	11.04.2019	8.299	394.8	17.55

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Job No.: CTCE/BBMP/PV/W.No.10/CSR-03/899g/Cube/2019-20 12.04.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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* Sample ID	:	Cement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{15}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	12.04.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.03.2019	12.04.2019	8.115	398.9	17.73
2	15.03.2019	12.04.2019	8.264	405.4	18.02
3	15.03.2019	12.04.2019	8.350	425.6	18.92

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* Sample ID	:	Cement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{15}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	12.04.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.03.2019	12.04.2019	8.273	368.4	16.37
2	15.03.2019	12.04.2019	8.416	374.6	16.65
3	15.03.2019	12.04.2019	8.333	384.8	17.10

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* Sample ID	:	Cement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{15}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	12.04.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.03.2019	12.04.2019	8.118	373.5	16.60
2	15.03.2019	12.04.2019	8.205	383.4	17.04
3	15.03.2019	12.04.2019	8.320	394.8	17.55

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Job No.: CTCE/BBMP/PV/W.No.10/CSR-03/899g/Cube/2019-20 12.04.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. P. Vishwanath,** No.28, 2nd Cross, Giddappa Block, Ganganagara, Bangalore - 5600 32.
* Name of the work	:	Providing and fixing missing covering slab at Nanjappa Layout, R.R. School, Muneshwara Layout, Ramanna Garden, Venugopalaswamy temple and surrounding areas in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	Cement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{15}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	12.04.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.03.2019	12.04.2019	8.292	385.9	17.15
2	15.03.2019	12.04.2019	8.364	395.4	17.57
3	15.03.2019	12.04.2019	8.405	409.8	18.21

*Information is furnished by the Customer/Representative.

Note:

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⇒Any Query regarding the report must be reported within 30 days from the date of testing.

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CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory
An ISO 9001:2008 Certified Company
NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

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Compressive Strength as on	:	28^{th} day
Sample Received on	:	12.04.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.03.2019	12.04.2019	8.090	368.7	16.39
2	15.03.2019	12.04.2019	8.197	375.4	16.68
3	15.03.2019	12.04.2019	8.293	389.9	17.33

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* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	13.04.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.03.2019	13.04.2019	8.178	474.5	21.09
2	16.03.2019	13.04.2019	8.206	484.8	21.55
3	16.03.2019	13.04.2019	8.325	522.5	23.22

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* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	13.04.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.03.2019	13.04.2019	8.112	486.5	21.62
2	16.03.2019	13.04.2019	8.325	495.7	22.03
3	16.03.2019	13.04.2019	8.196	508.7	22.61

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